

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
10 July 2003 (10.07.2003)

PCT

(10) International Publication Number
WO 03/055471 A1

(51) International Patent Classification⁷: **A61K 9/70**

(74) Agents: MINOJA, Fabrizio et al.; Via Rossini 8, I-20122 Milano (IT).

(21) International Application Number: PCT/EP02/13473

(22) International Filing Date:
26 November 2002 (26.11.2002)

(25) **Filing Language:** English

(26) Publication Language: English

(30) **Priority Data:**
MI2001A002827
28 December 2001 (28.12.2001) IT

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) **Designated States (regional):** ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, TM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicants (for all designated States except US): FIDIA FARMACEUTICI S.P.A. [IT/IT]; Via Ponte della Fabbrica, 3/A, I-35031 Abano Terme (IT). **APR APPLIED PHARMA RESEARCH S.A. [CH/CH];** Via Corti, 5, CH-6828 Balerna (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): PASSONI, Giuseppe [IT/IT]; Via Lecco, 23, I-20052 Monza (IT). CASETTA, Paolo [IT/IT]; Strada Nazionale Sempione-Baveno, 3, I-28831 Baveno (IT). STEFANELLI, Paola [IT/IT]; Via Turati, 23, I-73100 Lecce (IT).

Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 03/055471 A1

(54) Title: ADHESIVE TRANSDERMAL FORMULATIONS OF DICLOFENAC SODIUM

(57) **Abstract:** An adhesive, transdermal formulation containing a suspension of diclofenac sodium in polyoxyl hydrogenated castor oil, a copolymer of aminoalkyl methacrylate and methacrylate, one or more crosslinking agents for said copolymer, an adhesion system and possibly other excipients.

INTERNATIONAL SEARCH REPORT

PCT/EP 02/13473

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K9/70

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

WPI Data, PAJ, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 848 950 A (RÖHM) 24 June 1998 (1998-06-24) claims page 3, line 24 - page 4, line 13 ---	1-13
Y	WO 01 54674 A (F.T. HOLDINGS) 2 August 2001 (2001-08-02) claims page 4, line 10 - line 15 page 5, line 1 page 5, line 12 - line 20 examples 2, 4, 15, 16, 18 ---	1-13
Y	WO 00 45795 A (CIPLA) 10 August 2000 (2000-08-10) claims ---	1-13
	--- -/-	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

8 document member of the same patent family

Date of the actual completion of the international search

25 March 2003

Date of mailing of the international search report

01/04/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040. Tx. 31 651 epo nl.
Fax: (+31-70) 340-3016

Authorized officer

Scarponi, U

INTERNATIONAL SEARCH REPORT

PC 02/13473

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 876 092 A (T. MIZOBUCHI ET AL.) 24 October 1989 (1989-10-24) claims example 8 ----- ...	1-13

INTERNATIONAL SEARCH REPORT

PCT/EP 02/13473

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 848950	A	24-06-1998	DE 19653606 A1	25-06-1998
			DE 59708373 D1	07-11-2002
			EP 0848950 A2	24-06-1998
			JP 10182440 A	07-07-1998
			US 5993849 A	30-11-1999
WO 0154674	A	02-08-2001	IT MI20000095 A1	26-07-2001
			AU 4055101 A	07-08-2001
			WO 0154674 A1	02-08-2001
			EP 1253913 A1	06-11-2002
WO 0045795	A	10-08-2000	AU 2447200 A	25-08-2000
			BR 0007997 A	30-10-2001
			CA 2359640 A1	10-08-2000
			EP 1150661 A2	07-11-2001
			WO 0045795 A2	10-08-2000
			HU 0105336 A2	29-06-2002
			JP 2002536319 T	29-10-2002
			NO 20013815 A	02-10-2001
			PL 350186 A1	18-11-2002
			ZA 200005727 A	21-12-2000
US 4876092	A	24-10-1989	JP 2000248 C	08-12-1995
			JP 7029915 B	05-04-1995
			JP 62178513 A	05-08-1987